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## 国際調査報告

(法8条、法施行規則第40、41条) [PCT18条、PCT規則43、44]

		- ( ( )
出願人又は代理人 B-586 の書類記号 AYOP964	今後の手続きについては、国際調査報 及び下記5	8告の送付通知様式(PCT/ISA/220) を参照すること。
国際出願番号 PCT/JP00/02127	国際出願日 (日.月.年) 31.03.00	優先日 (日.月.年) 02.04.99
出願人 (氏名又は名称) 味の素株式会	社 	
国際調査機関が作成したこの国際調 この写しは国際事務局にも送付され	 査報告を法施行規則第41条(PCT18 る。	3条)の規定に従い出願人に送付する。
この国際調査報告は、全部で 3		
□ この調査報告に引用された先行	支術文献の写しも添付されている。	
│ この国際調査機関に提出る	くほか、この国際出願がされたものに基 れた国際出願の翻訳文に基づき国際調	耳でリッた。
b. この国際出願は、ヌクレオチ □ この国際出願に含まれる	ド又はアミノ酸配列を含んでおり、次 <i>0</i> F面による配列表	の配列表に基づき国際調査を行った。
	れたフレキシブルディスクによる配列	表
	<b>と関に提出された書面による配列表</b>	
□ 山麻後に この国際調査	k関に提出されたフレキシブルディスク	による配列表
出願後に提出した書面に、	<b>こる配列表が出願時における国際出願の</b>	)開示の範囲を超える事項を含まない自い除心
▼ 書面による配列表に記載書の提出があった。	<sub>ン</sub> た配列とフレキシブルディスクによる	配列表に記録した配列が同一である旨の陳述
2. 請求の範囲の一部の調査	ができない(第I欄参照)。	
3.	いる(第Ⅱ欄参照)。	
4. 発明の名称は 🗵 🗵	願人が提出したものを承認する。	
	に示すように国際調査機関が作成した	0
10. 5/3/2	J願人が提出したものを承認する。	
	≶Ⅲ欄に示されているように、法施行規 国際調査機関が作成した。出願人は、こ D国際調査機関に意見を提出することが	!則第47条(PCT規則38.2(b))の規定により .の国際調査報告の発送の日から1カ月以内にこ !できる。
6. 要約書とともに公表される図 第 <u>9</u> 図とする。図	t、 出願人が示したとおりである。	□ なし

□ 出願人は図を示さなかった。

本図は発明の特徴を一層よく表している。

A. 発明の属する分野の分類(国際特許分類(IPC)) Int.Cl'C07K1/14,C07K14/46,C12N15/00				
B. 調査を1	デった分野			
調査を行った	表小限資料(国際特許分類(IPC)) 7K1/14, C07K14/46, C12N	15/00	<del>, , , ,</del>	
最小限資料以外	外の資料で調査を行った分野に含まれるもの			
国際調査で使り MEDLIN	用した電子データベース(データベースの名称、 NE(STN),WPI(DIALOG),BI	調査に使用した用語) OSIS (DIALOG)		
C. 関連する	ると認められる文献		·	
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連すると	ときは、その関連する箇所の表示	関連する 請求の範囲の番号	
$\frac{X}{A}$	JP, 1-279898, A(ベーリングヴェルケ 10.11月.1989(10.11.89) ファミリ		1-10 $12-15$	
A	JP, 64-66213, A(ベーリングヴェルケ 13.3月.1989(13.03.89) ファミリー		1-15	
PY	WO, 99/64460, A (CELLTECH THERAPEUT 16.12月.1999 (16.12.99) & AU, 994		1-15	
区 C欄の続き	きにも文献が列挙されている。	□ パテントファミリーに関する別	紙を参照。	
* 引用文献のカテゴリー 「A」特に関連のある文献ではなく、一般的技術水準を示すもの 「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの 「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する 文献(理由を付す) 「O」口頭による開示、使用、展示等に言及する文献 「P」国際出願日前で、かつ優先権の主張の基礎となる出願 「&」同一パテントファミリー文献				
国際調査を完了	了した日 27.06.00	国際調査報告の発送日	.00	
日本国	の名称及びあて先 国特許庁 (ISA/JP) 郵便番号100-8915 郡千代田区霞が関三丁目4番3号	特許庁審査官(権限のある職員) 寮藤 真由美 電話番号 03-3581-1101	4N 9839	

	国際調査		国際出願者	PCT/JP0	0/02127
C (続き) . 引用文献の カテゴリー*		1000	引連するときは、その関連	車する箇所の表示	関連する 請求の範囲の番
Α		(サノフイ) 21.	. 1月. 1986(21. 01. 8		1-15
А			ユーティックス,イン ) ファミリーなし	ンコーポレイテ	12-15
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			<b>.</b>		
		·			
,	·				

#### 特許協力条約

PCT

#### 国際予備審査報告

REC'D 20 APR 2001
WIPO PCT

(法第12条、法施行規則第56条) [PCT36条及びPCT規則70]

出願人又は代理人 の書類記号 B-586AYOP964	今後の手続きについては、国際予備審査報告の送付通知(様式PCT/ IPEA/416)を参照すること。				
国際出願番号 PCT/JP00/02127	国際出願日 (日.月.年) 31.	03.00	優先日 (日.月.年)	02.04.99	
国際特許分類 (IPC) Int. Cl' C 0 7 K 1 / 1 4, C 0	7K14/46			(	
出願人 (氏名又は名称) 味の素株式会社					
1. 国際予備審査機関が作成したこの日 	<b>『際予備審査報告を法施</b>	函行規則第57条(P C	T36条)の規定	とに従い送付する。	
2. この国際予備審査報告は、この表紙	₹を含めて全部で	3 ペーシ	からなる。		
□ この国際予備審査報告には、附 査機関に対してした訂正を含む (PCT規則70.16及びPCT この附属書類は、全部で	g明細書、請求の範囲及 実施細則第607号参	とび/又は図面も添た 照)		/又はこの国際予備審	
3. この国際予備審査報告は、次の内容	ぎを含む。				
I X 国際予備審査報告の基礎					
Ⅱ □ 優先権					
Ⅲ 別 新規性、進歩性又は産業	上の利用可能性につい	ての国際予備審査報	告の不作成		
Ⅳ □ 発明の単一性の欠如					
V X PCT35条(2)に規定す	<sup>-</sup> る新規性、進歩性又は	は産業上の利用可能性	についての見解、	それを裏付けるため	
の文献及び説明 VI bる種の引用文献					
VII 国際出願の不備		•			
VII 国際出願に対する意見					
				·	
国際予備審査の請求書を受理した日 22.09.00	<u> </u>	国際予備審査報告を作 10.	形成した日 04.01		
名称及びあて先	华	許庁審査官(権限の	ある職員)_	4N 9839	
日本国特許庁 (IPEA/JP) 郵便番号100-8915		上條 肇	一	L	

電話番号 03-3581-1101 内線

3488

東京都千代田区霞が関三丁目4番3号



国際出願番号 PCT/JP00/02127

I. 国際予	備審査報告の基礎	<b>E</b>			
応答す		ιた差し替え用紙は、		れた。(法第6条(PC) おいて「出願時」とし、2	Γ14条)の規定に基づく命令に 本報告書には添付しない。
区 出願	時の国際出願書類	Į.			
明細明細	書 第		_ ページ、 _ ページ、 _ ページ、 _	出願時に提出されたもの 国際予備審査の請求書と	
請求	の範囲 第 の範囲 第 の範囲 第 の範囲 第		項、 _ 項、 _ 項、 _ 項、	出願時に提出されたもの PCT19条の規定に基 国際予備審査の請求書と	<b>통づき補正されたもの</b>
図面図面	第 			出願時に提出されたもの 国際予備審査の請求書と	)
明細	書の配列表の部分 書の配列表の部分 書の配列表の部分	第	_ページ、 _ページ、 _ページ、	出願時に提出されたもの 国際予備審査の請求書と	
2. 上記の	出願書類の言語に	は、下記に示す場合を	除くほか、この	の国際出願の言語である。	
	PCT規則48.3(b	提出されたPCT規則 )にいう国際公開の言	語	- •	語
3. この国	際出願は、ヌクレ	·オチド又はアミノ酸	配列を含んで	おり、次の配列表に基づき	と国際予備審査報告を行った。
	この国際出願と共 出願後に、この国 出願後に、この国 出願後に提出した 書の提出があった	際予備審査(または記書面による配列表がに に記載した配列とフ	ンブルディスク 調査)機関に提 調査)機関に提 出願時における	出された書面による配列 出されたフレキシブルデ 国際出願の開示の範囲を	
日 明細	の範囲 第		_ページ _項 ペー:	ジ <b>/</b> 図	
5. □ この れる	国際予備審査報告 ので、その補正か		 ように、補正だ して作成した。	が出願時における開示の範 (PCT規則70.2(c) こ	6囲を越えてされたものと認めら この補正を含む差し替え用紙は上

1-15

有

		国際	<b>力偏番宜報</b> 台		国际田殿番号	PCI/JP00/	02127
v.		生、進歩性又は産 及び説明	業上の利用可能性につい	へての法第12条	€ (PCT35\$	<b>ト(2)) に定める見解、</b>	それを裏付ける
1.	見解						
	新規性	(N)		請求の範囲請求の範囲	1	1-15	有 無
	進歩性	(IS)		請求の範囲 請求の範囲	1	1-15	

請求の範囲

請求の範囲

2. 文献及び説明 (PCT規則70.7)

産業上の利用可能性 (IA)

文献 1: JP, 1-279898, A (ベーリングヴェルケ・アクチエンゲゼルシャフト) 10.11月.1989 (10.11.89) & US, 5047506, A & EP, 332985, A & DE, 332985, A & FI, 8901121, A

#### 【特許請求の範囲1-15】

請求の範囲1~15に記載された発明は、国際調査報告で引用された文献1に対して進歩性を 有する。

本願優先日当時、蛋白質を精製する際、変性蛋白質を再巻き込みする際、S-S結合を切ることにより蛋白質が不溶化しないようにする際に、変性剤を用いることは、慣用技術であったと認められるものの(要すれば、W087/00223, A(f)ンプ・プッジ・ パイ材イエンス コーポ・レーション)& JP, 63-502957, A &、本願出願人が、答弁書により主張されるように、引用文献1には、「変性剤により変性させる旨」、「ポリオキシアルキルポリエーテルが結合したサブユニットペプチドを単離すること」は、記載されておらず、また、引用文献1において精製される第VIII因子は、サブユニット間にジスルフィド結合を有するものでないことから、本願発明は、引用文献1から当業者といえども容易に想到し得ないものである。

Translation



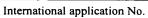
# **PCT**

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference B-586AYOP964	FOR FURTHER ACTION		ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/r	nonth/vear)	Priority date (day/month/year)		
PCT/JP00/02127	31 March 2000 (31.	•	02 April 1999 (02.04.99)		
International Patent Classification (IPC) or national classification and IPC C07K 1/14, 14/46					
Applicant	AJINOMOTO CO.,	INC.			
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>					
2. This REPORT consists of a total of	3 sheets, including	ng this cover s	heet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.					
3. This report contains indications relat	ting to the following items:				
Basis of the report					
II Priority					
III Non-establishment o	of opinion with regard to novelty	, inventive ste	ep and industrial applicability		
IV Lack of unity of inve	ention				
Reasoned statement	under Article 35(2) with regard ations supporting such statemen	to novelty, in	ventive step or industrial applicability;		
VI Certain documents c	ited				
VII Certain defects in the	e international application				
	on the international application	ı			
Date of submission of the demand	Date of	completion o	f this report		
22 September 2000 (22.0		-	April 2001 (10.04.2001)		
Name and mailing address of the IPEA/JP	Author	ized officer			
Facsimile No.	Telepho	one No.	<del>-</del>		

Form PCT/IPEA/409 (cover sheet) (July 1998)



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

# PCT/JP00/02127

I.	Basis	of the report	
1.	With	regard to the elements of the international application:*	
	$\boxtimes$	the international application as originally filed	
	一	the description:	
			, as originally filed
			, filed with the demand
		pages, filed with the letter of	
	لنا	the claims:	
			, as originally filed
		pages, as amended (together with any s	
		pages	_, filed with the demand
		pages, filed with the letter of	
l	$\Box$	the drawings:	
		pages	, as originally filed
l		pages	<del></del> :
		pages, filed with the letter of	
	_		
	<u></u>	the sequence listing part of the description:	
		pages	, as originally filed
		pages	, filed with the demand
		pages, filed with the letter of	
	the in Thes	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)) the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination 55.3).	which is:  on (under Rule 55.2 and/
3.	preli	regard to any nucleotide and/or amino acid sequence disclosed in the international application was carried out on the basis of the sequence listing:	ication, the international
	$\bowtie$	contained in the international application in written form.	
	$\bowtie$	filed together with the international application in computer readable form.	
	H	furnished subsequently to this Authority in written form.	
	$\sqcup$	furnished subsequently to this Authority in computer readable form.	
		The statement that the subsequently furnished written sequence listing does not go beyon international application as filed has been furnished.	d the disclosure in the
	$\bowtie$	The statement that the information recorded in computer readable form is identical to the wribeen furnished.	tten sequence listing has
4.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/fig	
		the drawings, sheets/rig	
5.		This report has been established as if (some of) the amendments had not been made, since they have beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ve been considered to go
*	in th	acement sheets which have been furnished to the receiving Office in response to an invitation under is report as "originally filed" and are not annexed to this report since they do not contain (70.17).	
**	Any r	replacement sheet containing such amendments must be referred to under item 1 and annexed to this	report.

International application No.

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/02127

<ul> <li>V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;</li> <li>citations and explanations supporting such statement</li> </ul>					
1. Statement					
Novelty (N)	Claims	1-15	YES		
	Claims		NO		
Inventive step (IS)	Claims	1-15	YES		
	Claims		NO		
Industrial applicability (IA)	Claims	1-15	YES		
	Claims		NO		

2. Citations and explanations

Document 1: JP, 1-279898, A (Behringwerke AG) 10 November 1989 (10.11.89) & US, 5047506, A & EP, 332985, A & DE, 332985, A & FI, 8901121, A

Claims 1-15

The inventions set forth in Claims 1-15 appear to involve an inventive step with respect to document 1 cited in the international search report.

Although this examination finds that at the priority date of this application it was conventional technology when purifying protein to use a denaturing agent during the rewinding of a denatured protein to cleave the disulfide bonds so that the protein would not become insoluble [if necessary, see WO 87/00223, A (Cambridge Bioscience Corp.) & JP, 63-502957, A], as the applicant asserts in the written reply, cited document 1 does not describe "denaturing by a denaturing agent," or "separation of a subunit peptide to which a polyoxyalkyl polyether has been bonded." Furthermore, the purified Factor VIII in document 1 does not have disulfide bonds between subunits, and therefore persons skilled in the art cannot easily conceive of the present inventions based on the description in document 1.



P.B.5818 - Patentlaan 2 2280 HV Rijswijk (ZH) 2 +31 70 340 2040 TX 31651 epo nl FAX +31 70 340 3016 Eur päisches Patentamt

Zweigstelle in Den Haag Recherchenabteilung European Patent Office

Branch at The Hague Search division Office europ 'en des br vets

Département à La Haye Division de la recherche

POFFMANN - EITLE
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München
ALLEMAGNE

**EINGEGANGEN** 

3 1. März 2003

HOFFMANN EITLE, MÜNCHEN PATENTANWÄLTE RECHTSANWÄLTE

Datum/Date 27.03.03

Zeichen/Ref./Réf.

89 973 a/fi

Anmeldung Nr./Application No./Demande n°./Patent Nr./Patent No./Brevet n°.

00913065.9-2403-JP0002127

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire Ajinomoto Co., Inc.

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above–mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

# REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





Alad -3/10/03

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# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 00 91 3065

	DOCUMENTS CONSID	ERED TO BE RELE	VANT		
Category	Citation of document with in of relevant pass	ndication, where appropriate sages	,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Ci.7)
Y	EP 0 539 167 A (ORT 28 April 1993 (1993 see page 3-6 and 8-	3-04-28)	1-	-15	C07K1/14 C07K14/46 C12N15/00
Y	CLELANDT J L ET AL: ENHANCED REFOLDING ANHYDRASE B. REACTI REFOLDING MODEL" JOURNAL OF BIOLOGIC SOCIETY OF BIOLOGIC MD, US, vol. 267, no. 19, 5 July 1992 (1992-0 13327-13334, XP0006 ISSN: 0021-9258 see page 13330, 133 conclusion	OF BOVINE CARBONION STOICHIOMETRY  CAL CHEMISTRY, AME CAL CHEMISTS, BALT  17-05), pages 176508	C AND ERICAN	-15	<u>-</u>
Υ	WO 95 32003 A (AMGE GEORGE N (US); MCDE KO) 30 November 199 see page 6 and 29-3	RMOTT MARTIN J (L 5 (1995-11-30)		-15	TECHNICAL FIELDS SEARCHED (Int.CI.7)
Y	US 5 856 126 A (KIT 5 January 1999 (199 Sequence 2 from US identical (in 126 a acid sequence as in present application	9-01-05) patent is 100% a overlap) to the claim 15 of the		l-15	CUTK
	The supplementary search repo set of claims valid and available	rt has been based on the las at the start of the search.	t	•	
	Place of search	Date of completion of	the search		Examiner
	MUNICH	20 March 2		Vix	
X : part Y : part doc: A : tect O : nor	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anolument of the same category inological background le-written disclosure rmediate document	T: thec E: earl after D: doc L: doc	ory or principle un ier patent documer the filing date ument cited in the ument cited for ot inber of the same ument	derlying the intention but published application her reasons	nvention shed on, or

#### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 91 3065

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-03-2003

Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
EP 0539167	Α	28-04-1993	AU	668841 B2	16-05-1996
			AU	1168495 A	01-06-1995
			ΑU	658231 B2	06-04-1995
			ΑU	2718392 A	22-04-1993
			CA	2080891 A1	22-04-1993
			ΕP	0539167 A2	28-04-1993
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#### P TENT COOPERATION TREAT

#### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

#### From the INTERNATIONAL BUREAU

10:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year)

O6 November 2000 (06.11.00)

Arrington, VA 22202

ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

International application No. PCT/JP00/02127

International filing date (day/month/year) 31 March 2000 (31.03.00)

B-586AYop964

Priority date (day/month/year)
02 April 1999 (02.04.99)

Applicant's or agent's file reference

**Applicant** 

FUKUCHI, Naoyuki et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	22 September 2000 (22.09.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

Facsimile No.: (41-22) 740.14.35 Form PCT/IB/331 (July 1992)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

Authorized officer

Henrik Nyberg

Telephone No.: (41-22) 338.83.38

JP0002127

#### PCT

# NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

#### From the INTERNATIONAL BUREAU

To:

TOYAMA, Tsutomu Yokoyama Building

6th floor

4-10, Higashi Nihonbashi 3-chome

Chuo-ku

Tokyo 103-0004

**JAPON** 

Date of mailing (day/month/year)

12 October 2000 (12.10.00)

Applicant's or agent's file reference

B-586AYop964

IMPORTANT NOTICE

International application No.

International filing date (day/month/year)

Priority date (day/month/year) 02 April 1999 (02.04.99)

PCT/JP00/02127

31 March 2000 (31.03.00)

Applicant

AJINOMOTO CO., INC. et ai

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice: AG,AU,DZ,KP,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE,AL,AM,AP,AT,AZ,BA,BB,BG,BR,BY,CA,CH,CN,CR,CU,CZ,DE,DK,DM,EA,EE,EP,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,NO,NZ,OA,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 12 October 2000 (12.10.00) under No. WO 00/59926

#### REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

#### REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

Th International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

#### PATENT COOPERATION TREATY



#### **PCT**

#### NOTIFICATION CONCERNING SUBMISSION OR TRANSMITTAL OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

#### From the INTERNATIONAL BUREAU

10:

TOYAMA, Tsutomu Yokoyama Building 6th floor 4-10, Higashi Nihonbashi 3-chome Chuo-ku Tokyo 103-0004 JAPON

IMPORTANT NOTIFICATION
International filing date (day/month/year) 31 March 2000 (31.03.00)
Priority date (day/month/year) 02 April 1999 (02.04.99)

AJINOMOTO CO.,INC. et al

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- 2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- 3. An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- 4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

Priority date Priority application No. Country or regional Office of PCT receiving Office Office Of PCT receiving Office Of

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Telephone No. (41-22) 338.83.38



#### INTERNATIONAL SEARCH REPORT



International application No.

PCT/JP00/02127

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C07Kl/14, C07Kl4/46, Cl2Nl5/00				
According to International Patent Classification (IPC) or to both national classification and IPC				
	SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> C07K1/14, C07K14/46, C12N15/00				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  MEDLINE (STN), WPI (DIALOG), BIOSIS (DIALOG)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
X A	JP, 1-279898, A (Behringwerke AG.), 10 November, 1989 (10.11.89) (Family: none)		1-10 12-15	
A	JP, 64-66213, A (Behrringwerke AG.), 13 March, 1989 (13.03.89) (Family: none)		1-15	
PΥ	WO, 99/64460, A (CELLTECH THERAPEUTICS LTD), 16 December, 1999 (16.12.99) & AU, 9942783, A		1-15	
A	JP, 61-12630, A (Sanofi SA.), 21 January, 1986 (21.01.86) (Family: none)		1-15	
A	JP, 6-504765, A (Cor Therapeutics, Inc.), 02 June, 1994 (02.06.94) (Family: none)		12-15	
Further documents are listed in the continuation of Box C. See patent family annex.				
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search  27 June, 2000 (27.06.00)  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family  Date of the actual completion of the international search  27 June, 2000 (27.06.00)  Date of the actual completion of the international search				
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile N .		Telephone No.		